RHINO-D 2x300 K4

The new generation diesel engine-driven welding set

CC MMA DC TIG

Key Attributes

- Chopper based Energy Efficient Diesel Engine Driven Welding Generator designed for simultaneous Double Welder use in Manual Metal ARC Welding & TIG welding. Current rating doubles by paralleling Outputs of welder-I and Welder-II in Single Operator Mode.
- The welding generator maintains constant current in Single Operator and Double Operator mode. Welding current remains constant regardless of engine speed variation or welding cable length changes.
- Significant fuel savings and extended operating time before the need for refuelling.
- Specially proven with Cellulosic (6010, 7010G & 8010G types) and other special electrodes.
- The welding generator is protected against output short circuit and over temperature.
- The set has a built-in 3-phase 22 KVA and 1-phase 6 KVA auxiliary power source for lighting, grinding, hand tools, and other auxiliary purposes.

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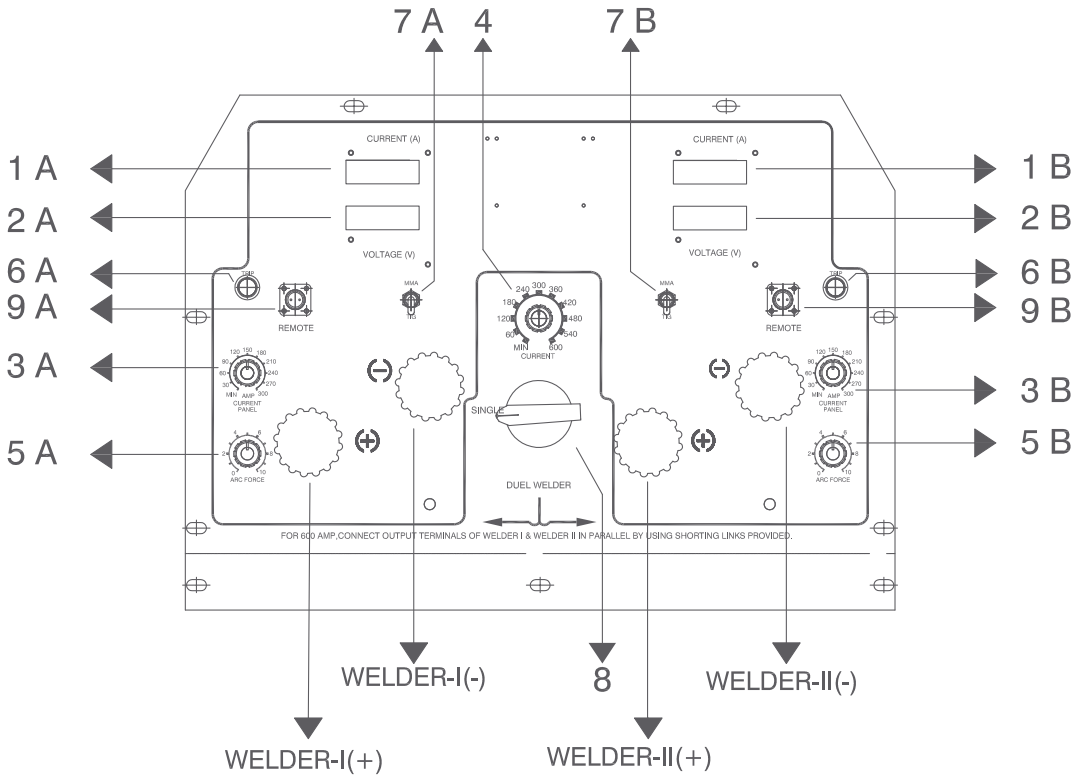
SALIENT FEATURES

- Versatile applications, including cross country, in-plant pipe, and tube welding.
- Ideal for heavy fabrication & site applications.
- Highly reliable even in hostile site conditions.
- Controlled noise level.
- Brushless design - Negligible Maintenance.

ENGINE

The engine is a four-cylinder air-cooled diesel engine. It is supplied with a heavy-duty dry-type air cleaner, fuel filter, fuel lift pump, mechanical governor, electric starting motor, and battery charging alternator. The engine is protected against high cylinder head temperature and low lube oil pressure.

CONTROL PANEL



1A, 1B = Digital Ammeters

2A, 2B = Digital Voltmeters

3A, 3B = Current Control Potentiometers (P3, P4)

4 = Current Control Potentiometer (P5) –Single Operator mode

5A, 5B = Arc Force Potentiometers (P1, P2)

6A, 6B = Trip Indicator Lamps

7A, 7B = MMA / TIG Selector Switches

8 = Selector Swich (S1) for selection of Single Operator / Dual Operator mode

9A, 9B = Remote Control Sockets

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ENGINE CONTROL PANEL

The engine controls and instruments consist of Temperature gauge, Hour meter, Battery charging ammeter, Oil pressure gauges, Start key switch and engine protection relay.

- Engine Circuit Breaker: Before starting the engine, switch on the Engine Circuit breaker.
- Key Switch: Engine Start/Stop & Ignition ON.
- Engine Stop Solenoid: This 12V solenoid is used to operate the fuel cut-off lever fitted on the fuel injection pump.
- Engine Protection Unit: This unit activates the engine stop solenoid in the event of low lubricant oil pressure, high cylinder head temperature, or fan belt failure.
- Temperature Switch: This is fitted on one of the cylinder heads and is used for sensing the temperature of the cylinder heads.
- Pressure Switch: This is fitted on the cylinder block through a flexible pressure pipe. It senses the lubricant oil pressure.
- Belt Failure Switch: This switch is actuated in the event of fan belt failure.

AUXILIARY PANEL

The auxiliary panel is placed on the left side of the set. There are four power sockets provided, each protected by individual MCBs.

- Two sockets rated at 3-phase, 60 Hz, 415 V, 11 KVA each (total 22 KVA).
- Two sockets rated at 1-phase, 60 Hz, 220 V, 3 KVA each (total 6 KVA).

AUXILIARY PANEL RATINGS

MODE	WELD LOAD TOGETHER WITH AUXILIARY LOAD	AUXILIARY MODE ONLY WITHOUT WELD LOAD	UNIT
RATING (3 PHASE)	18 KVA (AT WELDING LOAD OF MAXIMUM 600 A, 40 V)	22 KVA TOTAL (11 KVA + 11 KVA FROM EACH SOCKET)	KVA
RATING (SINGLE PHASE)	6 KVA (AT WELDING LOAD OF MAXIMUM 600 A, 40 V)	6 KVA TOTAL (3 KVA + 3 KVA FROM EACH SOCKET)	KVA
VOLTAGES (3 & 1 PHASE)	415 / 220	415 / 220	VOLTS
FREQUENCY	60	60	HZ
PHASES	3 / 1	3 / 1	NO
MCB RATING	16 / 16	16 / 16	AMPS

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TECHNICAL SPECIFICATIONS

PARAMETER	VALUE		UNIT
WELDING GENERATOR	BRUSHLESS		TYPE
OPERATING MODES	DOUBLE OPERATOR	SINGLE OPERATOR	
	MANUAL (CC)	MANUAL (CC)	
WELDING CURRENT RANGE	15 - 300 A	30 - 600 A	AMPS
MAX. HAND WELDING CURRENT @ 40% DC	2X300 A @ 29V	600 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 60% DC	2X250 A @ 26.5V	500 AMPS @ 30V	AMPS
MAX. HAND WELDING CURRENT @ 100% DC	2X200 A @ 24V	400 AMPS @ 36V	AMPS
OPEN CIRCUIT VOLTAGE (MAX)	92 VDC		VOLTS
GENERALLY, CONFORMS TO	IS - 2635		IS
INSULATION	H		CLASS
ENGINE	**VALUE**		**UNIT**
ENGINE MAKE, TYPE	KIRLOSKAR; HA - 494		-
CYLINDER	4		NOS.
ENGINE COOLING	AIR COOLED		TYPE
ENGINE RATING	52 BHP @ 1800 RPM		BHP
ENGINE RATED SPEED	1800		RPM
CONFORMS TO	ISO - 3046		ISO
STARTING (12V)	ELECTRIC		BATTERY
BATTERY CAPACITY (12V)	80 (CCA AT - 18°C AS PER IEC 420 A)		AH
FUEL CONSUMPTION	5.5		LTRS/HR.
FUEL TANK CAPACITY	70		LTRS.

DIMENSIONS AND WEIGHT

MACHINE TYPE	SKID MOUNTED	TWO WHEEL MOUNTED	FOUR WHEEL MOUNTED
L X W X H (MM)	2100 X 820 X 1250	3050 X 1455 X 1850	3435 X 1555 X 1850
APPROX. (KG)	1100	1250	1350

FG CODE	DESCRIPTION
F10.33.102.0063	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), SKID MOUNTED.
F10.33.102.0064	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), 2 WHEEL UNDERCARRIAGE.
F10.33.102.0065	DIESEL ENGINE DRIVEN SET, MODEL: RHINO-D 2X300 K4, 3 PHASE AUXILIARY 415 VOLTS, 22 (11+11) KVA (2 SOCKETS), 1 PHASE AUXILARY 220 VOLTS, 6 (3+3) KVA (2 SOCKETS), FOUR WHEEL UNDERCARRIAGE.

Warranty: Three years from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorized Distributors are free from defects in materials and workmanship and will perform in full accordance withapplicable specifications.

All engines and engine accessories are warranted by the engine or engine accessory manufacturer.

ADOR is not responsible for cable wear and consequential damage resulting from cable wear due to flexing and abrasion. End user is responsible for routine inspection of cables for possible wear and to remedy the issue prior to cable failure.

In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.

Backed by dedicated customer care package.

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peace of mind™

ADOR WELDING LIMITED

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